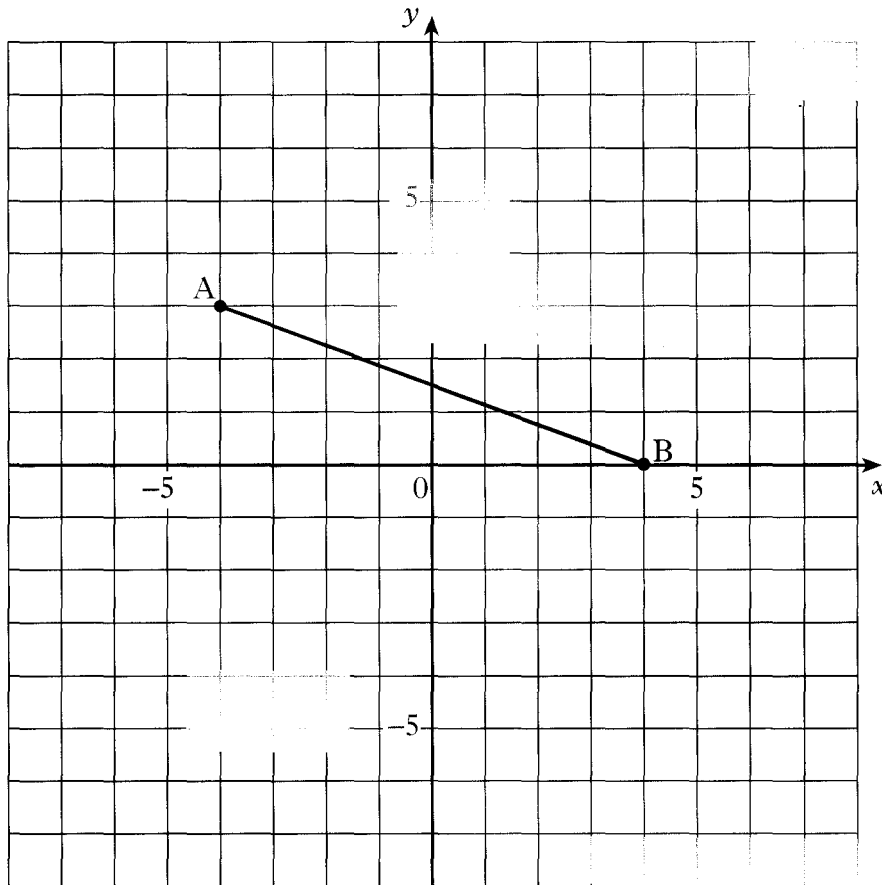


The line AB is drawn on the grid below.



2006 P1 Q5

Calculate the gradient of the line AB.

2

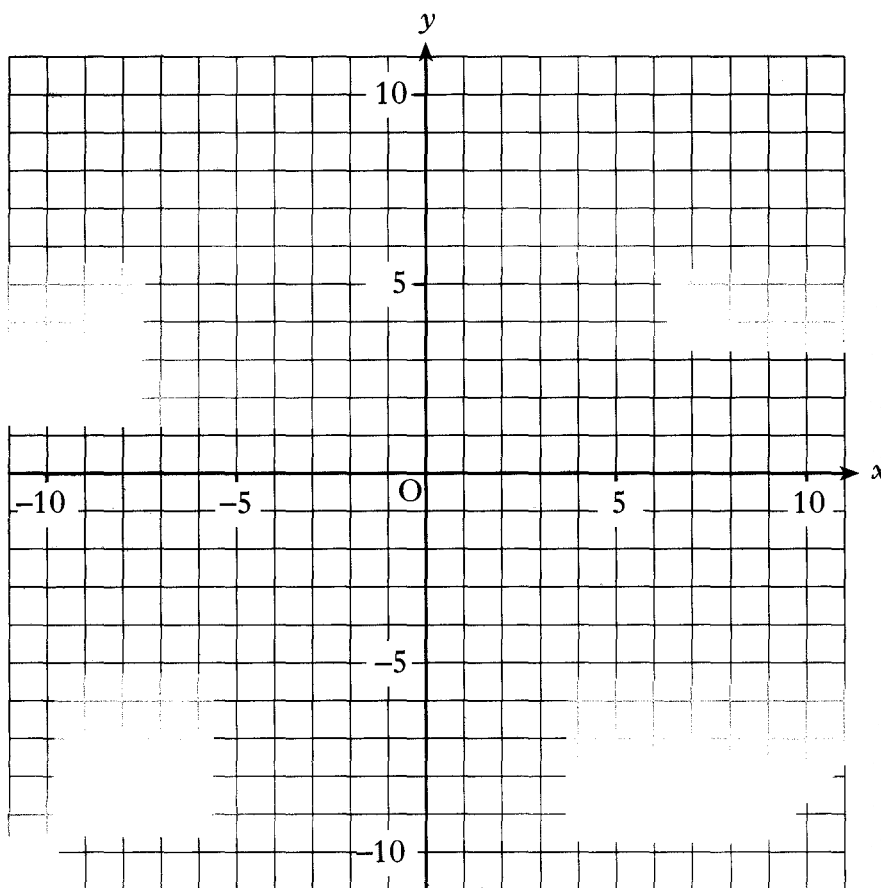
Ans $\frac{-3}{8}$

(a) Complete the table below for $y = 2x - 1$.

x	-4	0	4
y			

2

(b) Using the table in part (a), draw the graph of the line $y = 2x - 1$ on the grid below.



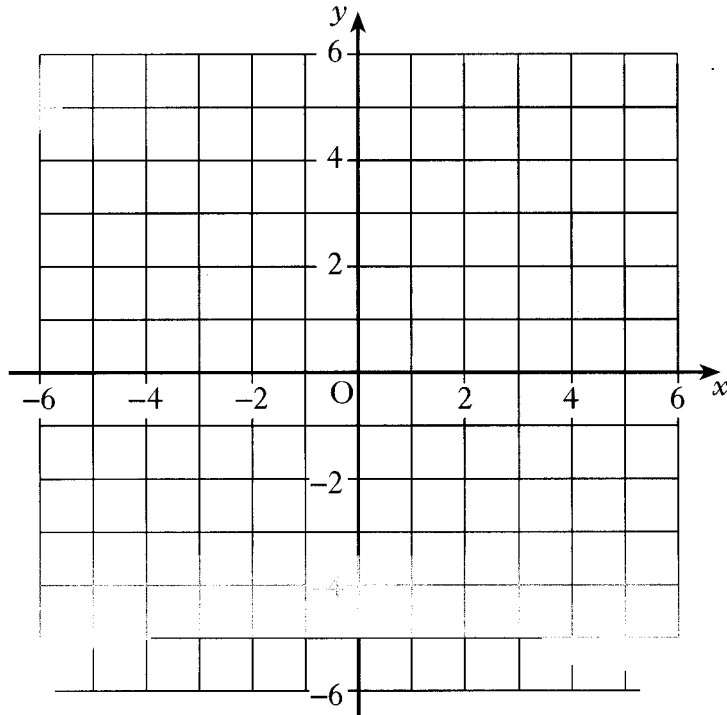
2

2003 P2 Q5

Ans (a) -9, -1, 7

2002 P1 Q5

(a) On the grid below, plot the points A(-4, -3), B(3, -1) and C(4, 4).



(b) Find the gradient of the line AB.

(c) Plot the fourth point D so that shape ABCD is a parallelogram.

Write down the coordinates of point D.

2

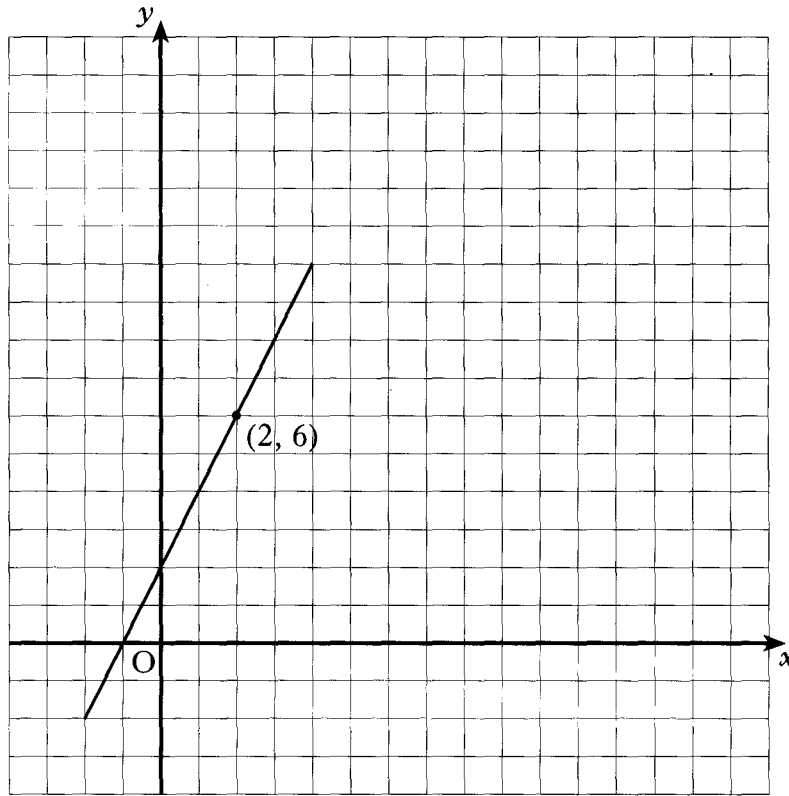
2

2

Ans (b) $\frac{2}{7}$ (c) D(-3, 2)

2000 P2 Q5

Part of a straight line graph is shown below.
The line can be extended in either direction.



(a) Complete the table below to show the coordinates of some of the points on the straight line.

x	1	2	3	4	5	6
y		6				

(b) Write down a formula for finding y when you know x .

$$y =$$

(c) The point $(a, 22)$ lies on the straight line.

Find a .

2

2

2

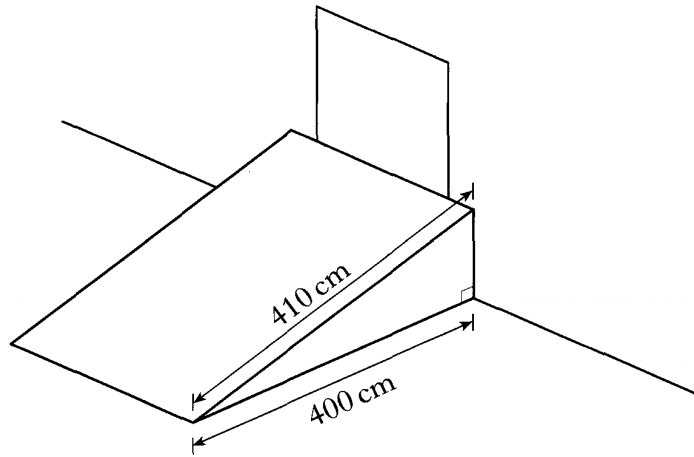
Ans

(a) $(1,4), (3,8), (4,10), (5,12), (6,14)$ (b) $y = 2x + 2$ (c) $a = 10$

2000 P2 Q11

A new regulation states that the gradient of all ramps into a building must be less than 0.26.

An existing ramp is 410 cm long and has a horizontal distance of 400 cm.



Does this ramp satisfy the new regulation?

Show all your working and give a reason for your answer.

5

Ans Yes. The gradient is 0.225 which is less than 0.26